



Agency Report from Japan Aerospace Exploration Agency (JAXA) for GHRSSST-IV



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JAXA's Contributions to GHRSSST

- JAXA develops SST instruments onboard several satellites
 - Past
 - OCTS (ADEOS), GLI (ADEOS-II), AMSR (ADEOS-II)
 - Current
 - **AMSR-E (Aqua), AMSR2 (GCOM-W1)**
 - Future
 - SGLI (GCOM-C1) in JFY2016
- JAXA has operated the GHRSSST server (Japanese RDAC) to distribute JAXA's SST products (produced from JAXA instruments and other agency's instruments) in GDS format.
 - Due to current data policy in Japan, we cannot provide data to GDACs for second data distribution.
 - Users can download SST data from the JAXA GHRSSST server after simple registration.

AMSR2 Data Release

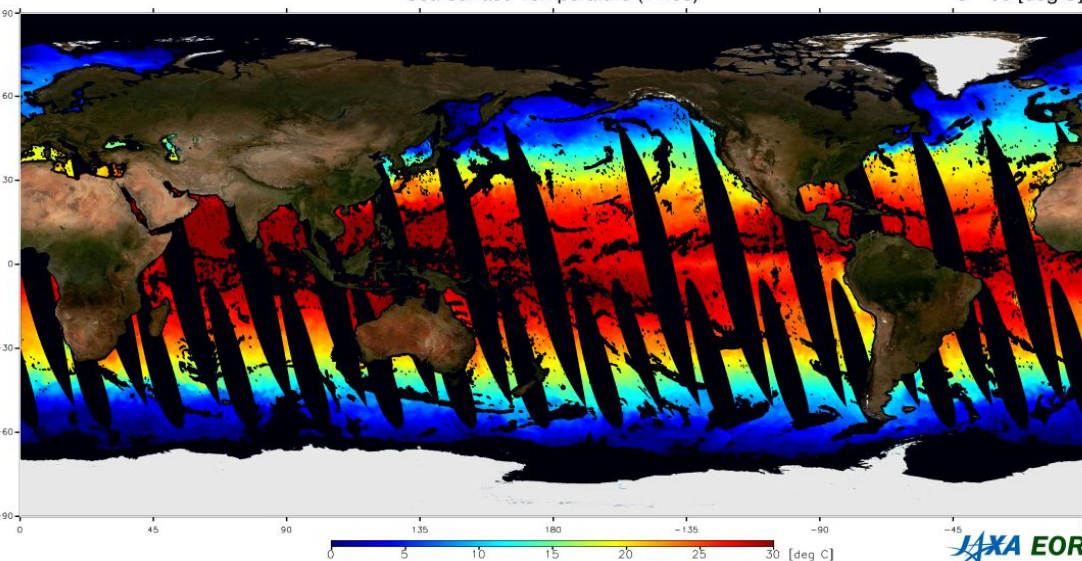
- ▣ Now, AMSR2 standard products has been released to public.
 - <https://gcom-w1.jaxa.jp/>
 - Release of AMSR2 brightness temperature (L1/L3TB) to public on Jan. 25, 2013.
 - ▣ Updated version (V1.10) has been released on Mar. 1, 2013
 - Release of AMSR2 geophysical parameters (L2/L3GEO) to public on May 17, 2013

AMSR2 SST on May 8, 2013

Ascending

Sea Surface Temperature (V1.00)

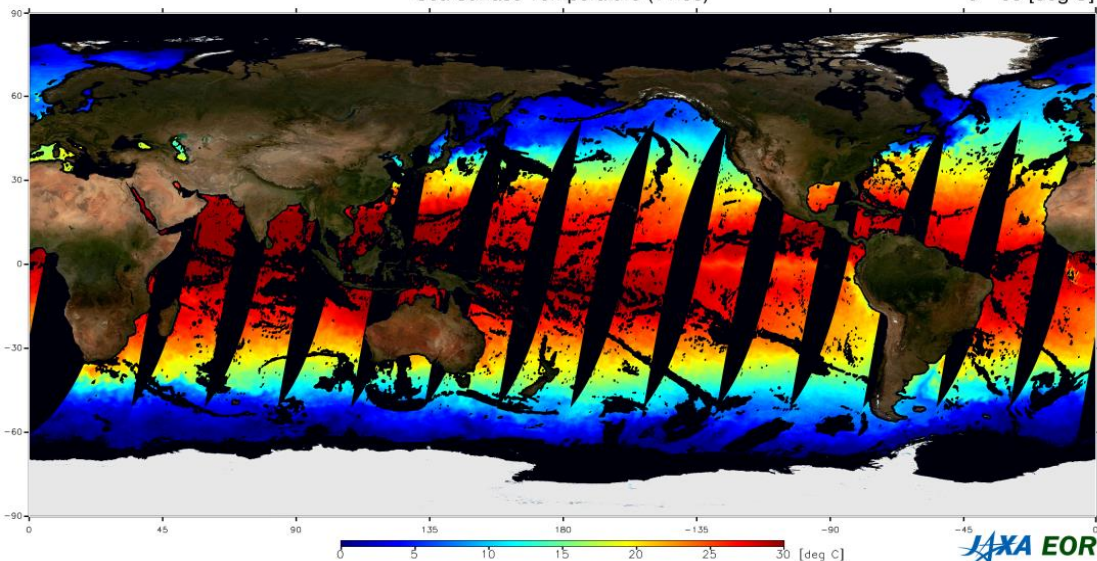
2013/05/08 Ascending
0 - 30 [deg C]



Descending

Sea Surface Temperature (V1.00)

2013/05/08 Descending
0 - 30 [deg C]

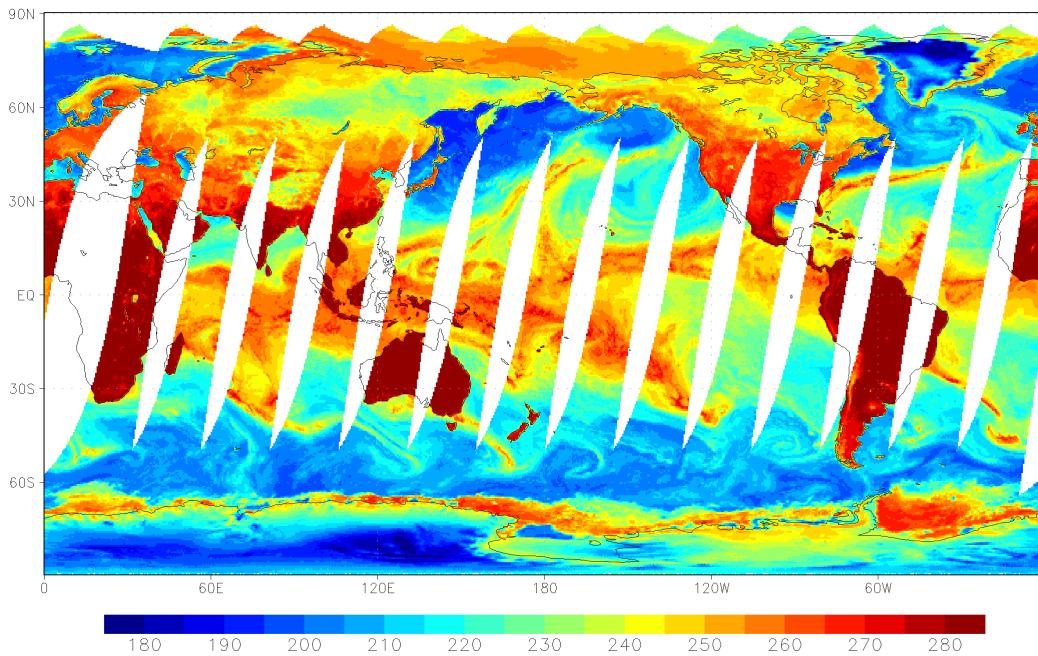


Status of AMSR-E onboard Aqua

- ❑ AMSR-E was halted its observation on Oct. 4, 2011.
 - However, AMSR-E hardware (both sensor and control) is expected in healthy condition except for its large friction with antenna rotation
- ❑ JAXA prepared a recovery plan with engineers and NASA carefully to avoid any influence to other Aqua instruments.
- ❑ AMSR-E has restarted observation at 2-rpm since Dec. 4, 2012 to implement cross-calibration with AMSR2.
- ❑ AMSR-E data in 2-rpm is not distributed to public, since we're still underway on calibration activities. We plans to distribute data after completion of calibration.

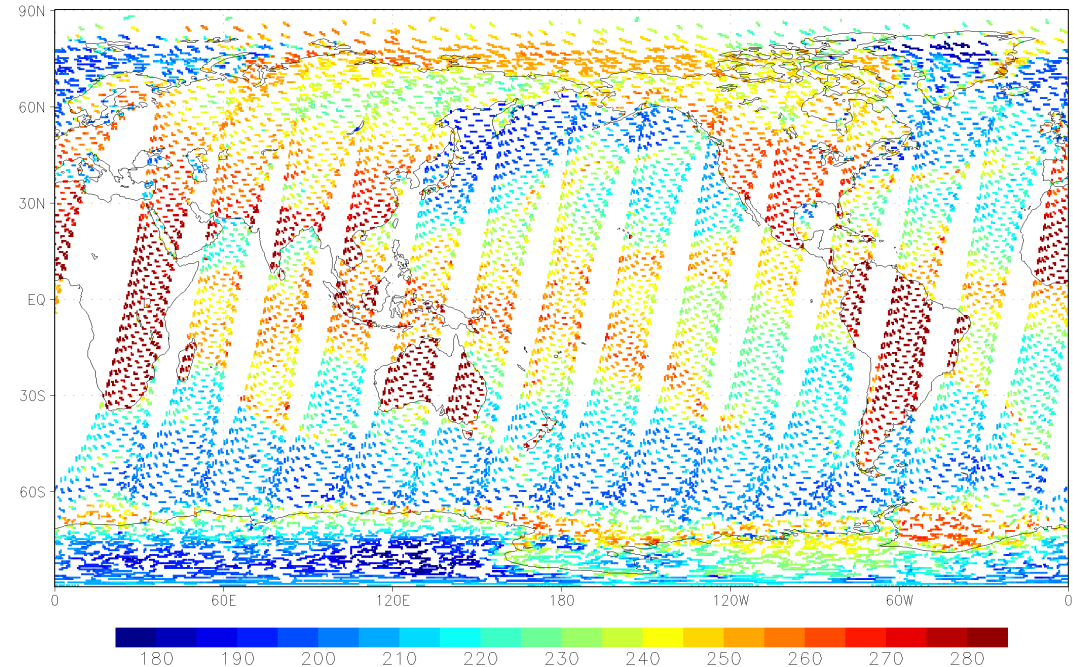
AMSR2 on 40-rpm

AMSR2 2012.12.13 DSC



AMSR-E on 2-rpm

AMSR-E 2rpm 2012.12.13 DSC



JAXA GHRSSST Server

□ SST datasets for GHRSSST

- AMSR-E (Aqua): L2P/L3C
- AMSR2 SST (GCOM-W1): L2P/L3C
- Windsat (Coriolis): L2P/L3C
- VIRS (TRMM): L2P/L3C

□ Status of archive (GDS 1.6)

- AMSR-E from Jun. 2002 to Oct. 2011: **completed**

□ Status of real-time production (GDS 2.0)

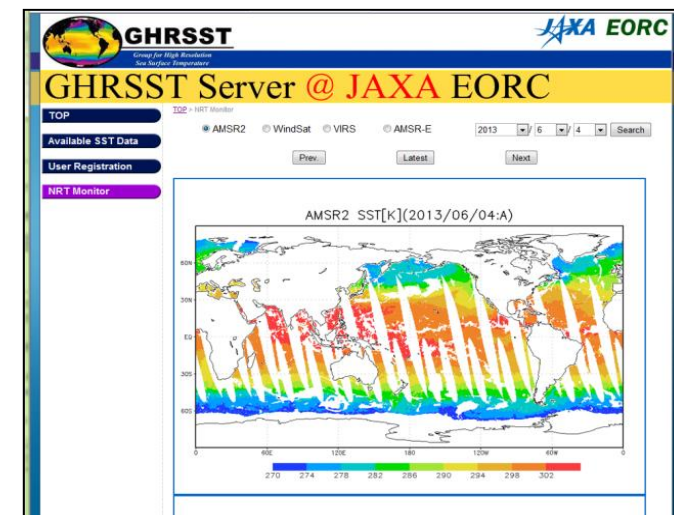
- AMSR2, Windsat, VIRS: **ongoing**

□ Status of reprocessing (GDS 2.0)

- AMSR-E from Jun. 2002 to Oct. 2011: **ongoing**
- AMSR2 from Jul. 2012 to present: **completed**
- Windsat from Apr. 1 to present: **ongoing**
- VIRS from Dec. 1997 to present: **ongoing**

Main activities since G-XIII

- Calibration and validation of AMSR2
 - Details will be shown on Wednesday presentation.
- AMSR2 standard products availability
 - <https://gcom-w1.jaxa.jp/>
 - Release of AMSR2 brightness temperature (L1/L3TB) to public on Jan. 25, 2013
 - Release of AMSR2 geophysical parameters (L2/L3GEO) to public on May 17, 2013
- Release of all SST products in GDS 2.0 format
 - AMSR2, Windsat, AMSR-E, VIRS
 - Need to make **NEW USER REGISTRATION** to access GDS 2.0 data.
 - No change in user account for GDS 1.6.
- Renewal of JAXA GHRSSST Web Site
 - <http://suzaku.eorc.jaxa.jp/GHRSSST/>
 - Automatic user registration for FTP download
 - NRT monitor of all SST products



GDS 2.0 Implementation

- Transition from GDS 1.6 to 2.0 is almost completed.
 - NRT processing has been started since Jun. 2013.
 - Reprocessing is ongoing.
- Available SST dataset in GDS 1.6
 - AMSR-E (Aqua): L2P/L3C
 - Available until the end of 2013
- Available SST dataset in GDS 2.0
 - AMSR-E (Aqua): L2P/L3C
 - AMSR2 SST (GCOM-W1): L2P/L3C
 - Windsat (Coriolis): L2P/L3C
 - (VIRS (TRMM): L2P/L3C)

Issues to be raised at G-IV

- Delay of launch of GCOM-C1 and SGLI
 - Currently scheduled in JFY 2016.
- Successor mission of GCOM-W1 and AMSR2
 - Still in planning phase.
 - Currently discuss with NASA/JPL and ISRO regarding possible collaboration regarding scatterometer.